Uploading C:\Program Files\Stnexp\Queries\516d.str

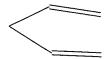
L18 STRUCTURE UPLOADED

=> d

=>

L18 HAS NO ANSWERS

L18



Structure attributes must be viewed using STN Express query preparation.

=> s 118

## REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 15:37:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4853 TO ITERATE

41.2% PROCESSED 2000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

101237

PROJECTED ITERATIONS: 92883 TO

PROJECTED ANSWERS: 44540 TO 50384

L19 50 SEA SSS SAM L18

L20 44 L19

=> s 120 and mesogen

2068 MESOGEN

L21 1 L20 AND MESOGEN

=> d ibib abs hitstr

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

143:122848

DOCUMENT NUMBER:

TITLE:

Reactive mesogens including 2,7-disubstituted-9,9-dialkylfluorene chromophores and methods for forming light-emitting and charge-transporting layers on

50 ANSWERS

substrates using them

2005:591929 CAPLUS

INVENTOR(S): K

Kelly, Stephen M.; O'Neill, Mary; Koch, Gene C.

PATENT ASSIGNEE(S): UK

SOURCE: U.S

U.S. Pat. Appl. Publ., 47 pp., Cont.-in-part of U.S.

Ser. No. 948,748.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE .	APPLICATION NO.		DATE
*-*					
US 2005146263	<b>A1</b>	20050707	US 2004-994434		20041123
PRIORITY APPLN. INFO.:			US 2003-505446P	P	20030925
			US 2004-563343P	P	20040416
			US 2004-948748	A2	20040924

AB Reactive mesogens are described which comprise 2,7-disubstituted-9,9dialkylfluorene chromophores. Methods for forming light-emitting and charge-transporting layers on substrates are also described which entail applying the mesogens to a substrate and optionally photopolymg. them. Diverse alignments may be imparted by an alignment layer(s). Methods for forming light-emitting polymers from the mesogens are also described. IT

819079-26-0 819079-49-7

RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(reactive mesogens including 2,7-disubstituted-9,9-dialkylfluorene chromophores and methods for forming light-emitting and charge-transporting layers on substrates using them)

RN 819079-26-0 CAPLUS

CN Pentanoic acid, 5,5'-[(9,9-dipropyl-9H-fluorene-2,7-diyl)bis(5,2thiophenediyl-4,1-phenyleneoxy)]bis-, bis(1-ethenyl-2-propenyl) ester (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 819079-49-7 CAPLUS

Undecanoic acid, 11-[4-[5-[7-[4'-[[11-[(1-ethenyl-2-propenyl)oxy]-11-CN oxoundecyl]oxy][1,1'-biphenyl]-4-yl]-9,9-dipropyl-9H-fluoren-2-yl]-2thienyl]phenoxy]-, 1-ethenyl-2-propenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

46728 ANSWERS

## => s l18 full

## REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 15:39:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 96031 TO ITERATE

100.0% PROCESSED 96031 ITERATIONS

SEARCH TIME: 00.00.01

46728 SEA SSS FUL L18

L23 106306 L22

=> s 123 and mesogen

2068 MESOGEN

L24 13 L23 AND MESOGEN

=> s 124 and py<1999

19037481 PY<1999

L25 2 L24 AND PY<1999

=> d 1-2 ibib abs hitstr

L25 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:641658 CAPLUS

DOCUMENT NUMBER: 127:278707

TITLE: Mesophase transitions in liquid crystal polymers

AUTHOR(S): Makaruk, Leszek; Furman, Jolanta

CORPORATE SOURCE: Dep. Chem., Warsaw Univ. Technology, Warsaw, 00-664,

Pol.

SOURCE: Reactive & Functional Polymers (1997),

33(2,3), 225-231

CODEN: RFPOF6; ISSN: 1381-5148

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

Liquid crystalline main-chain polysebacates containing mesogenic units with odd member bridging groups, and mesogenic units elongated by introduction into bridging groups cyclohexanone or aromatic or ferrocene units, were synthesized. Bisphenols obtained from p-hydroxybenzaldehyde (or its derivs.) and various ketones by aldol condensation were used as a source of mesogenic units. The effect of the length and the structure of mesogenic units (MU) on mesophase transition temperature was studied. Polyesters containing MU with an odd member of bridging groups exhibit liquid crystalline properties. Extending a mesogenic unit by the introduction of alicyclic or ferrocene units within the bridging group increases the mesophase transition temperature much less than does the introduction of a third aromatic ring.

IT 196599-28-7P 196599-29-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(Mesophase transitions in liquid crystal polyesters containing mesogens with cyclic or ferrocene units)

RN 196599-28-7 CAPLUS

Decanedicyl dichloride, polymer with stereoisomer of 1,5-bis(4-hydroxyphenyl)-1,4-pentadien-3-one (9CI) (CA INDEX NAME)

CM 1

CN

CRN 196599-27-6 CMF C17 H14 O3

Double bond geometry as shown.

CM 2

CRN 111-19-3 CMF C10 H16 Cl2 O2

CN

RN 196599-29-8 CAPLUS

Poly[oxy(1,10-dioxo-1,10-decanediyl)oxy-1,4-phenylene-1,2-ethenediyl-1,4-phenylene], (E,E)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

REFERENCE COUNT:

20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1997:410668 CAPLUS

DOCUMENT NUMBER: 127:34713

TITLE: Liquid crystal polymers of photopolymerized

1,4-pentadienes

INVENTOR(S): Hall, Alan William; Lacey, David; Sage, Ian Charles;

Blackwood, Keith Moray; Jones, Michelle

PATENT ASSIGNEE(S): Secretary of State for Defence, UK

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

GI.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9716504	A1	19970509	WO 1996-GB2654	19961031 <
W: GB, JP, US		•		
RW: AT, BE, CH,	DE, DK	, ES, FI, FR	, GB, GR, IE, IT,	LU, MC, NL, PT, SE
GB 2321463	A1	19980729	GB 1998-8767	19961031 <
GB 2321463	B2	19990630		
EP 858493	. A1	19980819	EP 1996-935125	19961031 <
EP 858493	B1	20000927		
R: DE, FR, GB				
JP 11514683	T2	19991214	JP 1997-517146	19961031
US 5968411	A	19991019	US 1998-66338	19980429
PRIORITY APPLN. INFO.:			GB 1995-22361	A 19951101
			WO 1996-GB2654	W 19961031
OTHER SOURCE(S):	MARPAT	127:34713	==== -	

$$- CH_2 - CH_2 - CH_2 - CH_2$$

AB Compds. for liquid crystal devices, piezoelec. devices, pyroelec. devices and in optical recording media, are I [m = ≥5; X1 and X2 = YQZP; P = mesogenic group; Y = COO, OCO, O, S, CHOH, CHF, CH2; Q = (CH2)n where ≥1 nonadjacent methylenes may be replaced by O and n = 1-20; Z = O, S, direct bond, COO, OCO; when Y = CH2 then n may also be 0; X1 and X2 = H, OH, OCOR1, COOH, CO2R1, (CH2)pOH, (CH2)pCO2H, (CH2)pOR1 or (CH2)pCO2R1 and p = 1-20, R1 = H or C1-16-alkyl, when R1 = C2-16-alkyl the terminal Me group may be replaced by Br or Cl; provided that ≥1 of X1 and X2 = YQZP]. Thus, 1,4-pentadien-3-ol was stirred with 11-bromoundecanoic acid in dicyclohexylcarbodiimide and dimethylaminopyridine for 6 h at room temperature to give an alkylated pentadiene (m.p. 45-47°), which was treated with 4-cyano-4'hydroxybiphenyl to give a mesogenic group-containing monomer (m.p. 61-63°). The photopolymer I (X1,X2 = OCO(CH2)100-p-(C6H4)2-p-CN) has number-average mol. weight 8200, weight-average mol. weight 17200, and polydispersity 2.1.

IT 922-65-6, 1,4-Pentadien-3-ol

RL: RCT (Reactant); RACT (Reactant or reagent)

(in manufacture of liquid crystal polymers of photopolymd. 1,4-pentadienes)

RN 922-65-6 CAPLUS

CN 1,4-Pentadien-3-ol (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

Ι

IT 179231-49-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(manufacture and polymerization; in manufacture of liquid crystal polymers of photopolymd. 1,4-pentadienes)

RN 179231-49-3 CAPLUS

CN Undecanoic acid, 11-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]-, 1-ethenyl-2-propenyl ester (9CI) (CA INDEX NAME)

IT 190721-56-3P

RN

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(reaction with 4-cyano-4'hydroxybiphenyl; in manufacture of liquid crystal polymers of photopolymd. 1,4-pentadienes)

190721-56-3 CAPLUS

CN Undecanoic acid, 11-bromo-, 1-ethenyl-2-propenyl ester (9CI) (CA INDEX NAME)

$$_{\rm H_2C} = _{\rm CH} _{\rm O} _{\rm CH_2C} = _{\rm CH^-CH^-O^-C^- (CH_2)_{10}^-Br}$$